EPIC® SENSORS T-M-Ø / W-M-Ø

Mineral insulated element

Features

- similar to DIN 43762
- temperature range -200...+1200 °C
- Pt 100 or thermocouple as sensing element
- AISI 316L or INCONEL 600 as standard delivery material, other materials on request
- Pt 100 accuracy class A as standard delivery
- thermocouple accuracy class 1 as standard delivery
- MI cable structured sensor element
- bendable
- tailored solutions according to customer specific needs
- ATEX and IECEx compatible Ex i versions available
- 3D step models available on request.

Typical applications

- energy and power plant technology
- · process industry
- chemical industry
- machinery and vessel construction
- manufacturing industry.

Special applications

- for very high temperature solutions we can offer special thermocouple inserts with ceramic tubing and platinum wiring up to +1600 °C
- for this type of insert please contact our sales.

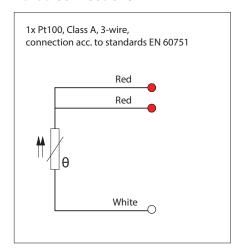


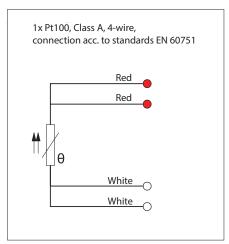
Technical data

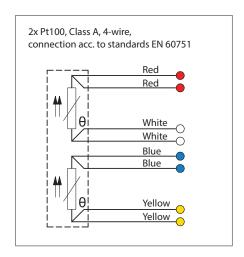
Materials	AISI 316L, max. temperature +550 °C, temporarily +600 °C INCONEL 600, max. temperature +1100 °C, temporarily +1200 °C Other materials on request
Tolerances Pt100 (IEC 60751)	A tolerance $\pm 0.15 + 0.002$ x t, operating temperature -100+450 °C B tolerance $\pm 0.3 + 0.005$ x t, operating temperature -196+600 °C B 1/3 DIN, tolerance $\pm 1/3$ x (0.3 + 0.005 x t), operating temperature -196+600 °C B 1/10 DIN, tolerance $\pm 1/10$ x (0.3 + 0.005 x t), operating temperature -196+600 °C
Tolerances thermocouple (IEC 60584)	Type J tolerance class 1 = -40375 °C \pm 1.5 °C, 375750 °C \pm 0.004 x t Type K and N tolerance class 1 = -40375 °C \pm 1.5 °C, 3751000 °C \pm 0.004 x t
Temperature range Pt 100	-200+550 °C, depending on sensor housing materials
Temperature range thermocouple	-200+1200 °C, depending on thermocouple type and sensor housing materials
Approvals	ATEX, IECEx, METROLOGICAL PATTERN APPROVAL
Quality certificate	ISO 9001:2015 and ISO 14001:2015 issued by DNV
IP rating	IP65, higher IP rating on request

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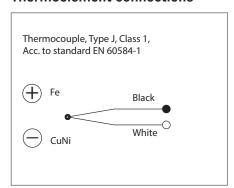
Pt 100 connections

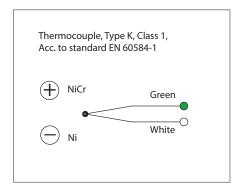


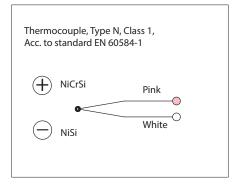




Thermoelement connections





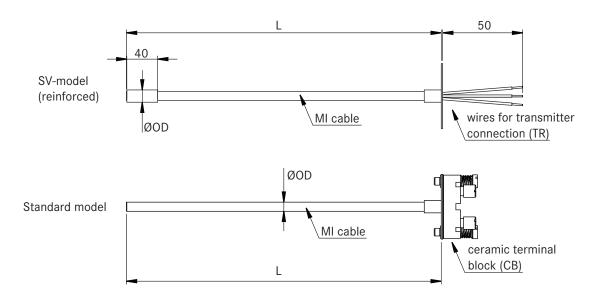


DATASHEET 7

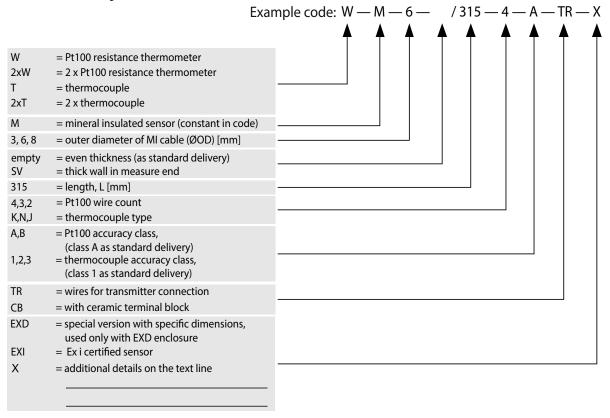
EPIC® SENSORS T-M-Ø / W-M-Ø

Mineral insulated element

Drawing



Product code key



W-M-6/315-3-A-CB

Pt100 resistance thermometer for 3 wire measurement, Pt100 with accuracy class A, mineral insulated element with diameter 6 mm and length 315 mm, ceramic block for cable connection.

T-M-8-SV/1500-K-1-TR

Thermocouple type K with accuracy class 1, mineral insulated element with diameter 8 mm and length 1500 mm, reinforced structure, wire ends for connecting 2 wire mA transmitter.